

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

**Complete if Known**

Application Number	10/540,730
Filing Date	06-24-2005
First Named Inventor	Nicholas Dale
Art Unit	
Examiner Name	
Attorney Docket Number	46309-315846

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/S.S./	1	US-5698083	12-16-1997	Robert S. Glass	
/S.S./	2	US-6303290	10-16-2001	Liu et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/S.S./	3	EP 0537781	04-21-1993	Yoshioka et al.		
/S.S./	4	WO 99/07877	02-18-1999	Nicholas Dale		
/S.S./	5	WO 99/10743	03-04-1999	Charych et al.		

**OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
/S.S./	6	ANGENENDT, PHILIPP ET AL.; "Toward optimized antibody microarrays: a comparison of current microarray support materials"; Analytical Biochemistry 309 (2002) 253-260	
/S.S./	7	AVNIR, DAVID ET AL.; "Enzymes and Other Proteins Entrapped in Sol-Gel Materials"; Chem. Mater., Vol. 6, 1994, pp. 1805-1814	
/S.S./	8	BOGART, K.H.A. ET AL.; "Surface reactivity measurements for OH radicals during deposition of SiO <sub>2</sub> from tetraethoxysilane/ O <sub>2</sub> plasmas"; Chemical Physics Letters; 267 (1997); 377-383	
/S.S./	9	BURMEISTER, JASON J. ET AL.; "Self-Referencing Ceramio-Based Multisite Microelectrodes for the Detection and Elimination of Interferences from the Measurement of L-Glutamate and Other Analytes"; Analytical Chemistry; 1 March 2001; 1037-1042; Vol. 73, No. 5	
/S.S./	10	DEEPA, P.N. ET AL.; "Electrochemically Deposited Sol-Gel-Derived Silicate Films as a Viable Alternative in Thin-Film Design"; Analytical Chemistry; 2003; 5399-5405; Vol. 75	
/S.S./	11	GHEORGHIAS, C. ET AL.; "Forming of the Structure for the Thin Ceramic Films Prepared by the Electrolytical Method"; Analele Stiintifice Ale Universitatii; 1999-2000; 268-275	
/S.S./	12	HARRELL, T.M. ET AL.; "Selective Deposition of Biocompatible Sol-Gel Materials"; Journal of Sol-Gel Science and Technology 31; 349-352, 2004	
/S.S./	13	HUANG, YUHONG ET AL.; "Advances in Sol-Gel Technology"; Chemat Technology, Inc., Northridge, Calif.; Shanghai Chemat Advanced Ceramics Technology Co., Ltd., Shanghai, China	
/S.S./	14	JONES, W.M. ET AL.; "Novel Processing of Silica Hydrosols and Gels"; Journal of Non-Crystalline Solids, 101; 1988, 123-126	

Examiner Signature	/Sally Sakelaris/	Date Considered	09/09/2009
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 2

**Complete if Known**

Application Number	10/540,730
Filing Date	06-24-2005
First Named Inventor	Nicholas Dale
Art Unit	
Examiner Name	
Attorney Docket Number	46309-315846

**OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS - (Continued)**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/S.S./	15	LILLIS, B. ET AL.; "Investigation into immobilisation of lactate oxidase to improve stability." Sensors and Actuators B 68; 2000; 109-114	
/S.S./	16	Extracts from Pamela M. Noms' online CV (University of Virginia, USA); "Production of Chromatographic Microchips using Sol-gel Derived Chromatographic Media" Funded by the Ivy Foundation, University of Virginia (PI: P.M. Norris, MAE; Co-PI: J. Landers, Chemistry)	
/S.S./	17	PALMISANO, F. ET AL.; "Amperometric biosensors based on electrosynthesised polymeric films.; Fresenius J Analytical Chemistry (2000) 366; 588-601	
/S.S./	18	POWER, MARY ET AL.; "Aerogels as biosensors: viral particle detection by bacteria immobilized on large pore aerogel," Journal of Non-Crystalline Solids 285; 2001; 303-308	
/S.S./	19	SHACHAM, RONEN ET AL.; "Electrodeposition of Zirconia and Silica Sol-Gel Films," The 66 <sup>th</sup> Annual Meeting of the Israel Chemical Society, February 5-6, 2001	
/S.S./	20	SHACHAM RONEN ET AL.; "Electrodeposition of Methylated Sol-Gel Films on Conducting Surfaces", Adv. Materials, 1999, 11, No. 5, pp.384-388	
/S.S./	21	SREENIVAS, G. ET AL.; "Fabrication and Characterization of Sputtered-Carbon Microelectrode Arrays; Analytical Chemistry; 1998; 1858-1864; Vol. 68, No. 11	
/S.S./	22	TEMPLIN, MARKUS F. ET AL.; "Protein microarray technology," TRENDS in Biotechnology; April 2002; 160-165; Vol. 20, No. 4	
/S.S./	23	YAN, D. ET AL.; "Glycerated Bis-Silanes as Precursors for the Development of Sol-Gel Derived Biofilms," The 84 <sup>th</sup> Canadian Society for Chemistry Conference & Exhibition 2001	

Examiner  
Signature

/Sally Sakelar/s/

Date  
Considered

09/09/2009

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.